

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Kouichiro INOMATA et al.**

Serial No.: **Not yet assigned**  
**(§371 of international application No. PCT/JP2003/015888)**

Filed: **June 10, 2005**

For: **SPIN INJECTION DEVICE, MAGNETIC APPARATUS USING  
THE SAME, AND MAGNETIC THIN FILM USED FOR THEM**

Attorney Docket Number: **052684**  
Customer Number: **38834**

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

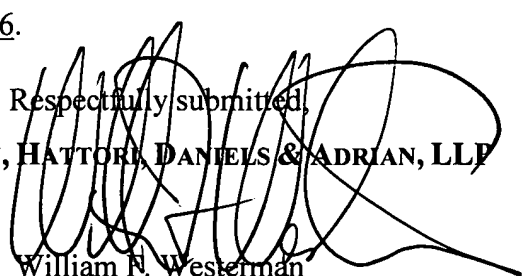
Date: June 10, 2005

Sir:

In compliance with 37 C.F.R. §1.56, Applicants direct the attention of the Patent and Trademark Office to the documents listed on the attached PTO/SB/08. A copy of each non-U.S. document is enclosed herewith.

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Respectfully submitted,  
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Enclosure: PTO/SB/08, 7 documents and international search report.

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|---|---|------------------------|--------|----------------------|-----------------------------------|
| Combined Form PTO/SB/08A&B<br><br><b><u>INFORMATION DISCLOSURE</u></b><br><b><u>STATEMENT BY APPLICANT</u></b><br><br>(use as many sheets as necessary) |   |                        |        | Complete if Known    |                                   |
|   |   |                        |        | Application Number   | New Application <b>10/4538689</b> |
|   |   |                        |        | Confirmation Number  |                                   |
|   |   |                        |        | Filing Date          | June 10, 2005                     |
|   |   |                        |        | First Named Inventor | Kouichiro INOMATA et al.          |
|   |   |                        |        | Art Unit             |                                   |
| Examiner Name   |   | Attorney Docket Number | 052684 |                      |                                   |
| Sheet   | 1 | of                     | 1      |                      |                                   |

| U.S. PATENT DOCUMENTS |                       |                    |                                      |                                |   |
|-----------------------|-----------------------|--------------------|--------------------------------------|--------------------------------|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number    |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
|                       |                       | Number             | Kind Code <sup>2</sup><br>(if known) |                                |   |
|                       | 1                     | US 2003/0011944 A1 |                                      | 01-16-2002                     | Masanori Hosomi                                 |
|                       |                       | US                 |                                      |                                |   |
|                       |                       | US                 |                                      |                                |   |

| FOREIGN PATENT DOCUMENTS |                       |                           |                     |                                      |                                |   |                          |
|--------------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------|---|--------------------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document               | Translation <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |   |                          |
|                          | 2                     | EPO                       | 1 085 586 A2        |                                      | 03-21-2001                     | Kabushiki Kaisha Toshiba. (Cited in the int'l. search report) | Yes                      |
|                          | 3                     | JP                        | 2002-92824          |                                      | 03-29-2002                     | Hitachi Ltd. (Cited in the int'l. search report)              | Abstract                 |
|                          |                       |                           |                     |                                      |                                |   |                          |
|                          |                       |                           |                     |                                      |                                |   |                          |
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|                          |                       |                           |                     |                                      |                                |   |                          |

| NON PATENT LITERATURE DOCUMENTS |                       |  |                          |  |
|---------------------------------|-----------------------|--|--------------------------|--|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation <sup>6</sup> |  |
|                                 | 4                     | T. MIYAZAKI et al.; “Spin polarized tunneling in ferromagnet / insulator / ferromagnet junctions” ELSEVIER, Journal of Magnetism and Magnetic Material, Vol. 151, (1995), pp.403-410. (Cited in the specification)   |                          |  |
|                                 | 5                     | J. C. SLONCZEWSKI; “Current-driven excitation of magnetic multilayers”, ELSEVIER, Journal of Magnetism and Magnetic Material, Vol. 159 (1996), pp.L1-L7. (Cited in the specification).   |                          |  |
|                                 | 6                     | J. A. KATINE et al.; “Current-driven magnetization reversal and spin-wave excitations in Co/Cu/Co Pillars”, Physical Review Letters, Vol. 83, No. 14, April 3, 2000, pp.3149-3152. (Cited in the spec.)  |                          |  |
|                                 | 7                     | T. AMBROSE et al.; “Magnetic properties of single crystal Co <sub>2</sub> MnGe Heusler alloy films”, Journal of Applied Physics, Vol. 87, No. 9, May 1, 2000, pp.5463-5465. (Cited in the specification).  |                          |  |
|                                 | 8                     | T. BLOCK et al.; “Spin polarized tunneling at room temperature in a Heusler Compound – A non-oxide material with a large negative magnetoresistance effect in low magnetic fields” J. Appl. Phys. 76. (Cited in the specification).                              |                          |  |
|                                 |                       |  |                          |  |

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|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

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